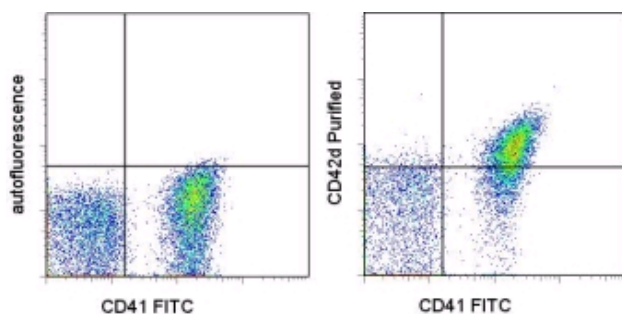


Anti-Mouse/Rat CD42d Purified

Catalog Number: 14-0421

Also Known As: platelet glycoprotein V, GP5, GPV

RUO: For Research Use Only



Staining of mouse platelets with Anti-Mouse CD41 FITC (cat. 11-0411) and 0.125 µg of Armenian Hamster IgG Isotype Control Purified (cat. 14-4888) (left) or 0.125 µg of Anti-Mouse/Rat CD42d Purified (right) followed by Anti-Armenian Hamster IgG PE (cat. 12-4112). Total events were used for analysis.

Product Information

Contents: Anti-Mouse/Rat CD42d Purified


REF Catalog Number: 14-0421

Clone: 1C2


Concentration: 0.5 mg/ml


Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The monoclonal antibody 1C2 recognizes mouse and rat CD42d, a single transmembrane protein also known as platelet glycoprotein V (GPV). CD42d interacts with CD42a, CD42b and CD42c to form the receptor for von willebrand factor and thrombin. This functional complex plays a role in platelet adhesion. Expression of CD42d (unlike other markers such as CD41) is restricted to resting platelets and megakaryocytes and therefore is a good marker for development of megakaryocytes.

Applications Reported

This 1C2 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistology staining of frozen tissue sections.

Applications Tested

This 1C2 antibody has been tested by flow cytometric analysis of mouse platelets. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Takada K, Saito M, Kaneko H, Iizuka K, Kokai Y, Fujimoto J. Novel monoclonal antibody reactive with thrombin-sensitive 74-kDa glycoproteins present on platelets and megakaryocytes both from mouse and rat. *Hybridoma*. 1995 Aug;14(4):361-7 (1C2, FC, IHC frozen, IP. PubMed)

Sato N, Kiyokawa N, Takada K, Itagaki M, Saito M, Sekino T, Suzuki T, Taguchi T, Mimori K, Lanza F, Fujimoto J. Characterization of monoclonal antibodies against mouse and rat platelet glycoprotein V (CD42d). *Hybridoma*. 2000 Dec;19(6):455-61 (1C2, IP, PubMed)

Related Products

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)

17-4317 Streptavidin APC

